

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/094655 A2

- (51) International Patent Classification⁷: **A47L 9/00**
- (21) International Application Number:
PCT/US2005/009813
- (22) International Filing Date: 23 March 2005 (23.03.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/556,133 24 March 2004 (24.03.2004) US
- (71) Applicant (for all designated States except US): **DON-ALDSON COMPANY, INC.** [US/US]; 1400 West 94th Street, P.O.Box 1299, Minneapolis, MN 55440-1299 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KRISKO, William, J.** [US/US]; 11224 Stanley Avenue South, Bloomington, MN 55437 (US). **BISHOP, Wayne, R., W.** [US/US]; 2709 Salem Avenue South, St. Louis Park, MN 55416 (US). **GIESEKE, Steven, Scott** [US/US]; 6239 Third Avenue South, Richfield, MN 55423 (US). **NELSON, Benny, K.** [US/US]; 9385 Gary Avenue, Waconia, MN 55387 (US).
- (74) Agent: **BRUESS, Steven, C.**; Merchant & Gould P.C., P.O. Box 2903, Minneapolis, MN 55402-0903 (US).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FILTER ELEMENTS; AIR CLEANER; ASSEMBLY; AND, METHODS

(57) Abstract: A filter cartridge, a safety element and fluid cleaner assembly are described. The fluid cleaner assembly generally includes a housing having a cover and a primary fluid cleaner section. The filter cartridge generally comprises z-filter media, arranged in a straight through configuration. Preferred cartridges include a seal gasket positioned to extend continuously around at outer perimeter of the straight through flow construction. The fluid cleaner assembly can have a precleaner positioned therein. Preferred features are described. Methods of assembly and use are also provided.



WO 2005/094655 A2